

**To:** Merritt, Steven[Merritt.Steven@epa.gov]  
**Cc:** Dhieux, Joyel[Dhieux.Joyel@epa.gov]; Gerard, Henry[Gerard.Henry@epa.gov]; Powell, Greg[Powell.Greg@epa.gov]  
**From:** Wendi Scholten  
**Sent:** Tue 8/11/2015 8:40:06 PM  
**Subject:** RE: Hach Kits for Water Analysis- Gold King Mine

This is the info I was able to get:

Arsenic: \$141/kit

Chromium: \$140/kit

Cadmium: \$68.85/pack of 25

Manganese, LR: \$53.39/kit

Lead: \$658/pack of 100

They cannot ship today. If I get an order in by 11AM tomorrow, they can ship what they have tomorrow. They were not sure if they would be able to ship the arsenic kit right away, or not.

They are working on looking up shelf lives on them.

Fedex tracking # for the Hach DR2800 – 774259730077 – should arrive Thursday.

## **Wendi Scholten**

Database Manager

G2 Engineering & Management

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**From:** Merritt, Steven [mailto:Merritt.Steven@epa.gov]  
**Sent:** Tuesday, August 11, 2015 2:03 PM  
**To:** w.scholten@g2em.com  
**Cc:** Dhieux, Joyel; Gerard, Henry; Powell, Greg  
**Subject:** FW: Hach Kits for Water Analysis- Gold King Mine

Wendi,

Here's where you need to ship this stuff. Do what you need to in order to get the DR2800 off to Durango today. If Hach can't get the reagents out today, we need to find another supplier, if that's possible.

Confirm for me that this is what we're trying to order 100 tests of:

Analyte Range	Part	Method	
Arsenic mg/L	—	Silver Diethyldithiocarbamate 8013	0.020 - 0.200
Chromium, Total 2242500		Alkaline Hypobromite Oxidation Method 8024	0.01 - 0.70 mg/L
Cadmium 0.080 mg/L	2242200	Dithizone 8017	0.0007 –
Lead 0.300 mg/L	2243100	Dithizone 8033	0.003 –
Manganese, LR 0.700 mg/L	2651700	PAN 8149	0.006 -

Joyel and others, please weigh in on this... I know that spectrometry was less desirable, but we have one of these and it's got a decent throughput.

Steven B. Merritt, CIH  
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**From:** Powell, Greg  
**Sent:** Tuesday, August 11, 2015 11:54 AM  
**To:** Merritt, Steven  
**Cc:** Gerard, Henry; Dhieux, Joyel  
**Subject:** Hach Kits for Water Analysis- Gold King Mine

Greetings:

Trying to see if we can utilize Hach water analysis kits for surface and ground water sampling here at the Gold King Mine site release. Hach kits are regularly used for water treatment confirmatory sampling. I propose that ten percent of the samples be sent to a lab for confirmation analysis.

We will need to have kits for high, medium and low concentration ranges. I suggest that someone talk to the health people for levels of concern for drinking water, livestock and direct contact numbers.

Attached is some information for Pb, As and Cr. Probably should add Cadmium and Manganese. The key is for ease of use in the field. I do not think we should utilize spectrophotometers. Let me know what you think.

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La Plata County Fairgrounds

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Durango, Colorado 81301

Henry cell:(702)501-8036

Steve (303)927-3501

Greg Powell

USEPA-Environmental Response Team

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Facts do not cease to exist because they are ignored.